

2025-10-20 10:00:00

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	10	20	30	40					
M	-	-	A	D	Q	G	R	G	R
M	-	-	A	S	G	G	R	G	R
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M	N	L	P	P	N	P	V	I	A

105	R	L	K	T	K	P	E	W	R	I	V	H	Y	H	V	E	F	E	P	S	I	E	N	P	R	V	R	M	G	V	L	S	N	H	-	-	A	N	L	L	piwi.PRO			
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67	-	-	-	-	-	-	-	-	-	-	-	S	I	Y	Q	Y	H	V	E	F	E	P	T	V	D	S	K	A	N	R	E	K	M	L	R	D	N	N	V	T	D	E	I	ciwi2.PRO
7	-	-	-	-	-	-	-	-	-	-	-	S	I	Y	Q	Y	H	V	E	F	E	P	T	V	D	S	K	A	T	R	E	N	M	L	R	Q	P	S	V	T	V	E	I	ciwi1.PRO
119	K	V	L	K	R	P	N	W	T	I	Y	Q	Y	R	V	D	F	T	P	D	V	E	A	T	R	L	R	S	F	L	Y	E	H	-	-	K	G	I	L	aubergine.PRO				
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Majority																																												
143	G	-	G	F	V	F	D	G	M	I	L	F	L	K	E	E	F	E	Q	N	Q	M	I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	piwi.PRO		
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99	G	H	H	F	V	F	D	G	M	I	L	Y	L	K	E	E	W	E	Q	N	Q	M	I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ciwi2.PRO		
39	G	K	H	F	V	F	D	G	M	I	L	Y	L	K	E	E	W	D	Q	N	Q	M	I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ciwi1.PRO		
157	G	-	G	Y	I	F	D	G	T	N	M	F	C	I	N	Q	F	K	A	V	Q	D	S	P	Y	V	L	E	L	V	T	K	S	R	A	G	E	N	I	E	aubergine.PRO			
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Majority																																												
178	I	R	I	K	-	V	G	R	F	L	V	D	D	P	Q	T	I	N	V	L	N	L	I	L	R	R	S	F	D	G	L	-	L	T	L	V	G	R	N	Y	piwi.PRO			
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134	I	R	F	K	Q	T	N	R	F	L	V	D	D	P	Q	T	I	N	I	F	N	T	I	I	R	R	S	F	D	A	L	Q	L	T	Q	L	G	R	N	Y	ciwi2.PRO			
74	I	R	F	K	K	T	N	R	F	L	V	D	D	P	Q	T	I	N	I	F	N	T	I	I	R	R	S	F	D	A	M	K	L	T	Q	I	G	R	N	Y	ciwi1.PRO			
196	I	K	I	K	A	V	G	S	V	Q	S	T	D	A	E	Q	F	Q	V	L	N	L	I	L	R	R	A	M	E	G	L	D	L	K	L	V	S	R	Y	Y	aubergine.PRO			
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FIG. 1B

FIG. 1C

334	I	R	I	R	D	H	N	Q	P	L	L	I	S	K	N	R	D	K	A	L	K	T	N	A	-	S	E	L	V	V	L	I	P	E	L	C	R	V	T	G	piwi.PRO
14	Q	E	I	T	D	L	K	Q	P	V	L	V	S	Q	P	K	R	R	R	G	P	G	G	T	L	P	G	P	A	M	L	I	P	E	L	C	Y	L	T	G	hiwi.PRO
294	I	E	I	T	V	D	D	Q	P	I	I	I	S	E	G	K	P	K	Q	-	P	G	E	P	-	P	Q	V	S	Y	I	V	P	E	L	C	F	P	T	G	ciwi2.PRO
192	I	D	I	T	D	D	E	Q	F	I	I	I	S	E	G	K	P	K	Q	-	P	G	E	P	-	P	Q	V	N	Y	I	V	P	E	L	C	F	P	T	G	ciwil.PRO
352	I	I	R	D	L	K	Q	P	L	V	M	S	R	P	T	D	K	N	I	R	G	G	N	-	D	Q	A	I	M	I	I	P	E	L	A	R	A	T	G	aubergine.PRO	
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	hiwi_Hy.PRO		
Majority																																									
Majority																																									
373	L	N	A	E	M	R	S	N	F	Q	L	M	R	A	M	S	S	Y	T	R	M	N	P	K	Q	R	T	D	R	L	R	A	F	N	H	R	L	Q	N	T	piwi.PRO
54	L	T	D	K	M	R	N	D	F	N	V	M	K	D	L	A	V	H	T	R	L	T	P	E	Q	R	Q	R	E	V	G	R	L	I	D	Y	I	H	K	N	hiwi.PRO
332	L	T	D	E	M	R	K	D	F	K	M	M	K	E	I	A	K	H	T	R	M	S	P	Q	R	L	V	E	S	R	K	L	I	V	D	L	S	K	N	ciwi2.PRO	
230	L	T	D	E	M	R	K	D	F	K	M	M	K	E	I	A	K	H	T	R	M	S	P	Q	R	L	D	E	T	R	K	L	I	T	K	L	S	Q	N	ciwil.PRO	
391	M	T	D	A	M	R	A	D	F	R	T	L	R	A	M	S	E	H	T	R	L	N	P	D	R	R	I	E	R	L	R	M	F	N	K	R	L	K	S	C	aubergine.PRO
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	hiwi_Hy.PRO	
Majority																																									
Majority																																									
413	P	E	S	V	K	V	L	R	D	W	N	M	E	L	D	K	N	V	T	E	V	Q	G	R	I	I	G	Q	Q	N	I	V	F	H	-	N	G	K	V	P	piwi.PRO
94	D	N	V	Q	R	E	L	R	D	W	G	L	S	F	D	S	N	L	S	F	S	G	R	I	L	Q	T	E	K	I	-	-	H	Q	G	G	K	T	F	hiwi.PRO	
372	E	K	V	M	E	C	F	K	Y	W	G	I	S	L	G	Q	D	L	A	N	V	Q	A	R	V	L	K	S	E	P	L	-	-	Q	-	G	K	K	T	Y	ciwi2.PRO
270	Q	T	M	M	E	C	F	Q	Y	W	G	I	S	L	G	Q	D	L	A	N	V	Q	A	R	V	L	K	S	E	P	L	-	-	Q	-	G	K	R	Q	Y	ciwil.PRO
431	K	Q	S	V	E	T	L	K	S	W	N	I	E	L	D	S	A	L	V	E	I	P	A	R	V	L	P	P	E	K	I	L	F	G	-	N	Q	K	I	F	aubergine.PRO
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	hiwi_Hy.PRO	

FIG. 1D

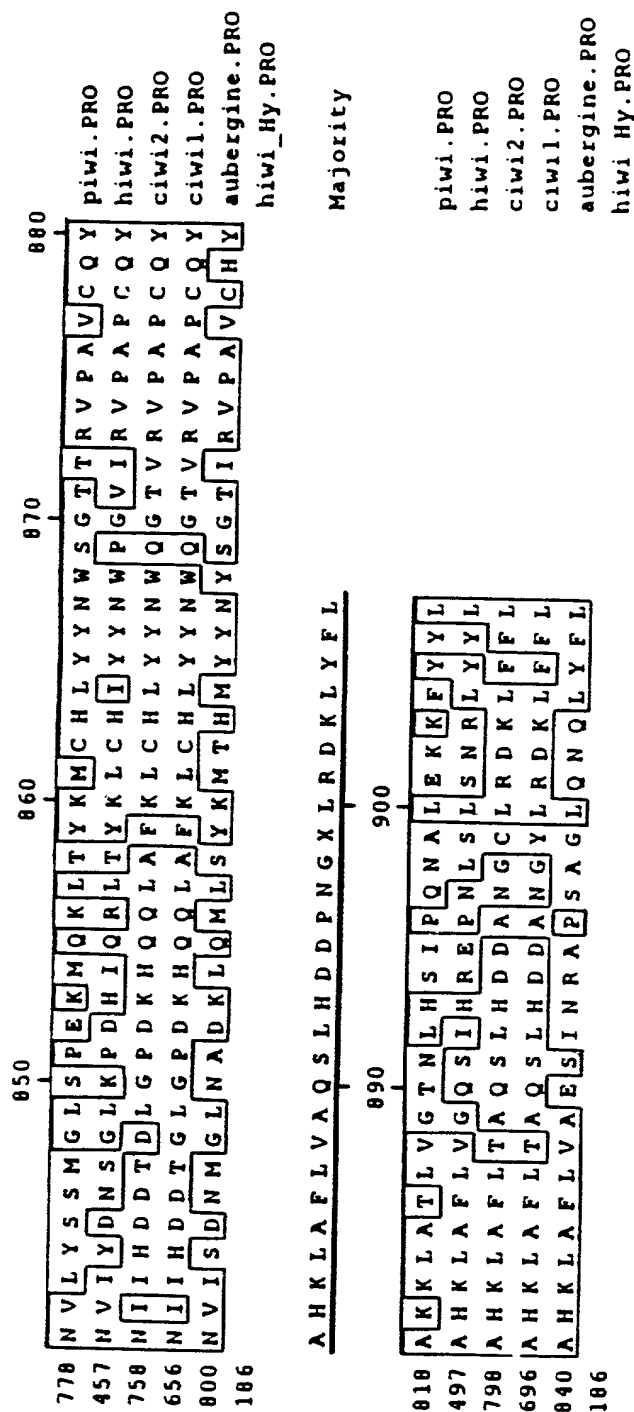
FIG. 1E

563	A	V	P	T	Q	V	V	T	L	K	T	-	-	-	-	T	K	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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FIG. 1F

RTLP SRI I VYRD GVG D G Q L K T L V N T E V K - - - - D A V T D L Majority																																										
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353	E	Y	M	P	S	R	I	I	V	Y	R	D	G	V	G	D	G	Q	L	K	T	L	V	N	Y	E	V	P	-	-	-	-	Q	F	L	D	C	L	hiwl.PRO			
643	Q	T	L	P	S	R	L	I	L	Y	R	D	G	A	G	D	G	Q	I	P	Y	I	K	N	T	E	V	K	L	V	R	D	A	C	D	A	V	T	D	K	ciwl2.PRO	
541	K	T	L	P	S	R	L	I	L	Y	R	D	G	A	G	D	G	Q	I	P	Y	I	K	N	T	E	V	K	L	V	R	D	A	C	D	A	V	T	D	K	ciwil.PRO	
696	R	S	L	P	E	R	I	L	F	F	R	D	G	V	G	D	G	Q	L	Y	Q	V	N	S	E	V	N	-	-	-	-	-	-	-	-	T	L	K	D	R	L	aubergine.PRO
122	H	D	L	P	A	R	I	I	V	Y	R	A	G	V	G	D	G	Q	L	K	T	L	I	E	Y	E	V	P	-	-	-	-	-	-	-	Q	L	L	S	S	V	hiwl_Hy.PRO
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387	K	-	-	-	S	I	G	R	G	Y	N	P	-	R	L	T	V	I	V	V	K	K	R	V	N	T	R	F	F	A	Q	S	G	R	L	Q	-	-	-	-	hiwl.PRO	
683	A	A	E	L	S	N	K	V	Q	E	K	I	-	K	L	A	F	I	I	V	T	K	R	V	N	M	R	I	L	K	Q	G	-	-	-	S	L	D	ciwl2.PRO			
581	A	A	E	L	S	N	K	V	Q	E	K	I	-	K	L	A	F	I	I	V	T	K	R	V	N	M	R	I	L	K	Q	G	-	-	-	S	S	K	ciwil.PRO			
730	D	E	I	Y	K	S	A	G	K	Q	E	G	C	R	M	T	E	I	I	V	S	K	R	I	N	S	R	Y	F	T	G	H	-	-	-	-	-	-	-	aubergine.PRO		
156	A	-	-	-	E	S	S	S	N	T	S	S	-	R	L	S	V	I	V	V	R	K	K	C	M	P	R	F	F	T	-	-	-	-	-	-	-	-	-	hiwl_Hy.PRO		
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420	-	-	-	-	N	P	L	P	G	T	V	I	D	V	E	V	T	R	P	E	W	Y	D	F	F	I	V	S	Q	A	V	R	S	G	S	V	S	P	T	H	Y	hiwl.PRO
718	N	A	I	N	P	Q	P	G	T	V	V	D	T	T	V	T	R	P	E	R	M	D	F	Y	L	V	P	Q	F	V	N	Q	G	T	V	T	P	V	S	Y	ciwl2.PRO	
616	S	A	I	N	P	Q	P	G	T	V	V	D	T	T	V	T	R	P	E	R	M	D	F	Y	L	V	P	Q	F	V	N	Q	G	T	V	T	P	V	S	Y	ciwil.PRO	
763	-	-	-	-	N	P	V	P	G	T	V	V	D	D	V	I	T	L	P	E	R	Y	D	F	F	L	V	S	Q	A	V	R	I	G	T	V	S	P	T	S	Y	aubergine.PRO
182	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	hiwl_Hy.PRO			
NVIHDDTGLGPDKKHQQLAYKLCCHLYYNWWSGTVRVPAPCQY Majority																																										

FIG. 1G



Decoration 'Decoration #1': Box residues that match the Consensus exactly.

Decoration 'Decoration #2': Shade (with black at 10% fill) residues that match hiwi_Hy.PRO exactly.

FIG. 1H

SEQUENCE ALIGNMENT

SEQ ID NO:2	1	SIKKYLS	CPVPSQCV	ARTLNKQGMMSI	ATKIAMQMTCKLGGELWAVEI	PLKSLMVV	60	
SEQ ID NO:9	207	SIKKYLS	SDCPVPSQCV	ARTLNKQGMMSI	ATKIAMQMTCKLGGELWAVEI	PLKSLMVV	266	
SEQ ID NO:2	61	GIDVCKDAL	SKDVMV	GCVASVNP	ITRWF	SRCILQRTMTDVADCLKV	FMTGALNKWYKY	120
SEQ ID NO:9	267	GIDVCKDAL	SKDVMV	GCVASVNP	ITRWF	SRCILQRTMTDVADCLKV	FMTGALNKWYKY	326
SEQ ID NO:2	121	NHDLPARII	IVYRAGV	GDGQLKTLIE	YEV	PQLLSVAESSNTSSRLSV	IIVVRKKCMRFF	180
SEQ ID NO:9	327	NHDLPARII	IVYRAGV	GDGQLKTLIE	YEV	PQLLSVAESSNTSSRLSV	IIVVRKKCMRFF	386
SEQ ID NO:2	181	TEMNRT						186
SEQ ID NO:9	387	TEMNRT						392

Score = 942 (336.7 bits), Expect = 3.0e-100, P = 3.0e-100
Identities = 183/186 (98%), Positives = 183/186 (98%)

FIG. 2